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[www.greenanalytical.com](http://www.greenanalytical.com)

26 September 2012

Mike Rigby  
Waste Water Management, Inc.  
2820 Dorr Ave, Ste 200  
Fairfax, VA 22031  
RE: EC Durango Pilot

Enclosed are the results of analyses for samples received by the laboratory on 09/10/12 10:30.  
If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "Debbie Zufelt". The signature is written in a cursive, flowing style.

Debbie Zufelt  
Reports Manager



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Waste Water Management, Inc.  
2820 Dorr Ave, Ste 200  
Fairfax VA, 22031

Project: EC Durango Pilot  
Project Name / Number: [none]  
Project Manager: Mike Rigby

Reported:  
09/26/12 15:53

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ECD-10	1209049-01	Water	09/08/12 11:00	09/10/12 10:30
ECD-11	1209049-02	Water	09/08/12 12:00	09/10/12 10:30

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Debbie Zufelt, Reports Manager

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Fairfax VA, 22031

Project: EC Durango Pilot  
Project Name / Number: [none]  
Project Manager: Mike Rigby

Reported:  
09/26/12 15:53

**ECD-10****1209049-01 (Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Alkalinity, Bicarbonate	10.0	10.0		mg/L	1	09/12/12	2320 B		ABP
Alkalinity, Carbonate	<10.0	10.0		mg/L	1	09/12/12	2320 B		ABP
Alkalinity, Hydroxide	<10.0	10.0		mg/L	1	09/12/12	2320 B		ABP
Alkalinity, Total	<10.0	10.0		mg/L	1	09/12/12	2320 B		ABP
Chloride	<10.0	10.0	5.00	mg/L	1	09/13/12	4500Cl- B		ABP
Sulfate	1460	200	32.6	mg/L	20	09/17/12	4500SO4 E		ABP
TSS	1440	2.00		mg/L	1	09/11/12	160.2		ABP

**Total Recoverable Metals by ICP**

Aluminum	5.07	0.050	0.006	mg/L	1	09/14/12	6010B		JLM
Iron	19.1	0.050	0.004	mg/L	1	09/14/12	6010B		JLM

**Dissolved Metals by ICP**

Aluminum	3.09	0.500	0.064	mg/L	10	09/25/12	200.7		JGS
Calcium	407	10.0	0.050	mg/L	10	09/25/12	200.7		JGS
Iron	17.0	0.500	0.043	mg/L	10	09/25/12	200.7		JGS
Magnesium	28.0	10.0	0.155	mg/L	10	09/25/12	200.7		JGS
Potassium	<10.0	10.0	2.47	mg/L	10	09/25/12	200.7		JGS
Sodium	17.5	10.0	0.087	mg/L	10	09/25/12	200.7		JGS

**Total Recoverable Metals by ICPMS**

Cadmium	<0.0100	0.0100	0.0021	mg/L	100	09/20/12	6020A		JGS
Copper	22.6	0.0100	0.0031	mg/L	100	09/20/12	6020A		JGS
Lead	0.926	0.0500	0.0021	mg/L	100	09/20/12	6020A		JGS
Manganese	43.3	0.0500	0.0046	mg/L	100	09/20/12	6020A		JGS
Zinc	12.6	0.100	0.0103	mg/L	100	09/20/12	6020A		JGS

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Project: EC Durango Pilot  
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Project Manager: Mike Rigby

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### ECD-10

#### 1209049-01 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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#### Dissolved Metals by ICPMS

Cadmium	<0.0100	0.0100	0.0021	mg/L	100	09/25/12	200.8		JGS
Copper	20.5	0.150	0.0459	mg/L	100	09/25/12	200.8		JGS
Lead	0.897	0.0500	0.0021	mg/L	100	09/25/12	200.8		JGS
Manganese	44.8	0.0500	0.0046	mg/L	100	09/25/12	200.8		JGS
Zinc	14.4	0.100	0.0103	mg/L	100	09/25/12	200.8		JGS

#### Total Mercury by CVAA

Mercury	<0.0002	0.0002	0.00001	mg/L	1	09/19/12	245.1		JGS
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#### Dissolved Mercury by CVAA

Mercury	<0.0002	0.0002	0.00001	mg/L	1	09/19/12	245.1		JGS
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**ECD-11****1209049-02 (Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Alkalinity, Bicarbonate	<10.0	10.0		mg/L	1	09/12/12	2320 B		ABP
Alkalinity, Carbonate	<10.0	10.0		mg/L	1	09/12/12	2320 B		ABP
Alkalinity, Hydroxide	<10.0	10.0		mg/L	1	09/12/12	2320 B		ABP
Alkalinity, Total	<10.0	10.0		mg/L	1	09/12/12	2320 B		ABP
Chloride	<10.0	10.0	5.00	mg/L	1	09/13/12	4500Cl- B		ABP
Sulfate	1520	200	32.6	mg/L	20	09/17/12	4500SO4 E		ABP
TSS	1320	2.00		mg/L	1	09/11/12	160.2		ABP

**Total Recoverable Metals by ICP**

Aluminum	15.6	0.050	0.006	mg/L	1	09/14/12	6010B		JLM
Iron	30.0	0.050	0.004	mg/L	1	09/14/12	6010B		JLM

**Dissolved Metals by ICP**

Aluminum	16.1	0.500	0.064	mg/L	10	09/25/12	200.7		JGS
Calcium	425	10.0	0.050	mg/L	10	09/25/12	200.7		JGS
Iron	31.8	0.500	0.043	mg/L	10	09/25/12	200.7		JGS
Magnesium	29.0	10.0	0.155	mg/L	10	09/25/12	200.7		JGS
Potassium	<10.0	10.0	2.47	mg/L	10	09/25/12	200.7		JGS
Sodium	<10.0	10.0	0.087	mg/L	10	09/25/12	200.7		JGS

**Total Recoverable Metals by ICPMS**

Cadmium	<0.0100	0.0100	0.0021	mg/L	100	09/20/12	6020A		JGS
Copper	11.9	0.0100	0.0031	mg/L	100	09/20/12	6020A		JGS
Lead	0.914	0.0500	0.0021	mg/L	100	09/20/12	6020A		JGS
Manganese	44.9	0.0500	0.0046	mg/L	100	09/20/12	6020A		JGS
Zinc	14.4	0.100	0.0103	mg/L	100	09/20/12	6020A		JGS

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### ECD-11

#### 1209049-02 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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#### Dissolved Metals by ICPMS

Cadmium	<0.0100	0.0100	0.0021	mg/L	100	09/25/12	200.8		JGS
Copper	11.1	0.150	0.0459	mg/L	100	09/25/12	200.8		JGS
Lead	0.924	0.0500	0.0021	mg/L	100	09/25/12	200.8		JGS
Manganese	45.6	0.0500	0.0046	mg/L	100	09/25/12	200.8		JGS
Zinc	17.2	0.100	0.0103	mg/L	100	09/25/12	200.8		JGS

#### Total Mercury by CVAA

Mercury	<0.0002	0.0002	0.00001	mg/L	1	09/19/12	245.1		JGS
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#### Dissolved Mercury by CVAA

Mercury	<0.0002	0.0002	0.00001	mg/L	1	09/19/12	245.1		JGS
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### General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B209093 - General Prep - Wet Chem

<b>Blank (B209093-BLK1)</b>				Prepared & Analyzed: 09/11/12						
TSS	ND	2.00	mg/L							
<b>Duplicate (B209093-DUP1)</b>				Source: 1209049-01 Prepared & Analyzed: 09/11/12						
TSS	1440	2.00	mg/L		1440			0.00	20	
<b>Reference (B209093-SRM1)</b>				Prepared & Analyzed: 09/11/12						
TSS	159	2.00	mg/L	151		105	85-115			

#### Batch B209097 - General Prep - Wet Chem

<b>Blank (B209097-BLK1)</b>				Prepared & Analyzed: 09/12/12						
Alkalinity, Total	ND	10.0	mg/L							
<b>LCS (B209097-BS1)</b>				Prepared & Analyzed: 09/12/12						
Alkalinity, Total	103	10.0	mg/L	100		103	85-115			
<b>LCS Dup (B209097-BSD1)</b>				Prepared & Analyzed: 09/12/12						
Alkalinity, Total	97.0	10.0	mg/L	100		97.0	85-115	6.00	20	

#### Batch B209100 - General Prep - Wet Chem

<b>Blank (B209100-BLK1)</b>				Prepared & Analyzed: 09/13/12						
Chloride	ND	10.0	mg/L							
<b>LCS (B209100-BS1)</b>				Prepared & Analyzed: 09/13/12						
Chloride	101	10.0	mg/L	100		101	85-115			

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*Debbie Zufelt*

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Project Name / Number: [none]  
Project Manager: Mike Rigby

Reported:  
09/26/12 15:53

### General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B209100 - General Prep - Wet Chem

##### LCS Dup (B209100-BSD1)

Prepared & Analyzed: 09/13/12

Chloride	98.0	10.0	mg/L	100	98.0	85-115	3.02	20	
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#### Batch B209112 - General Prep - Wet Chem

##### Blank (B209112-BLK1)

Prepared & Analyzed: 09/17/12

Sulfate	ND	10.0	mg/L						
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##### LCS (B209112-BS1)

Prepared & Analyzed: 09/17/12

Sulfate	50.0	10.0	mg/L	50.0	100	85-115			
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##### LCS Dup (B209112-BSD1)

Prepared & Analyzed: 09/17/12

Sulfate	49.0	10.0	mg/L	50.0	98.0	85-115	2.02	20	
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Project: EC Durango Pilot  
Project Name / Number: [none]  
Project Manager: Mike Rigby

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### Total Recoverable Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B209102 - EPA 3005

##### Blank (B209102-BLK1)

Prepared & Analyzed: 09/14/12

Aluminum	ND	0.050	mg/L
Iron	ND	0.050	mg/L

##### Blank (B209102-BLK2)

Prepared & Analyzed: 09/14/12

Aluminum	ND	0.050	mg/L
Iron	ND	0.050	mg/L

##### LCS (B209102-BS1)

Prepared & Analyzed: 09/14/12

Aluminum	3.83	0.050	mg/L	4.00	95.6	85-115
Iron	3.88	0.050	mg/L	4.00	97.0	85-115

##### LCS Dup (B209102-BSD1)

Prepared & Analyzed: 09/14/12

Aluminum	3.78	0.050	mg/L	4.00	94.4	85-115	1.31	20
Iron	3.84	0.050	mg/L	4.00	96.0	85-115	1.01	20

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Project: EC Durango Pilot  
Project Name / Number: [none]  
Project Manager: Mike Rigby

Reported:  
09/26/12 15:53

### Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B209106 - Dissolved/Potentially Dissolved Metals

##### Blank (B209106-BLK1)

Prepared: 09/17/12 Analyzed: 09/25/12

Aluminum	ND	0.050	mg/L
Calcium	ND	1.00	mg/L
Iron	ND	0.050	mg/L
Magnesium	ND	1.00	mg/L
Potassium	ND	1.00	mg/L
Sodium	ND	1.00	mg/L

##### LCS (B209106-BS1)

Prepared: 09/17/12 Analyzed: 09/25/12

Aluminum	5.07	0.050	mg/L	5.00	101	85-115
Calcium	5.31	1.00	mg/L	5.00	106	85-115
Iron	5.19	0.050	mg/L	5.00	104	85-115
Magnesium	26.5	1.00	mg/L	25.0	106	85-115
Potassium	9.59	1.00	mg/L	10.0	95.9	85-115
Sodium	7.92	1.00	mg/L	8.10	97.8	85-115

##### LCS Dup (B209106-BSD1)

Prepared: 09/17/12 Analyzed: 09/25/12

Aluminum	5.06	0.050	mg/L	5.00	101	85-115	0.0659	20
Calcium	5.33	1.00	mg/L	5.00	107	85-115	0.322	20
Iron	5.20	0.050	mg/L	5.00	104	85-115	0.150	20
Magnesium	26.6	1.00	mg/L	25.0	106	85-115	0.492	20
Potassium	9.47	1.00	mg/L	10.0	94.7	85-115	1.32	20
Sodium	7.93	1.00	mg/L	8.10	97.9	85-115	0.115	20

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### Total Recoverable Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B209125 - EPA 3005M

##### Blank (B209125-BLK1)

Prepared: 09/18/12 Analyzed: 09/20/12

Cadmium	ND	0.0001	mg/L							
Copper	0.0003	0.0001	mg/L							B1
Lead	ND	0.0005	mg/L							
Manganese	ND	0.0005	mg/L							
Zinc	ND	0.0010	mg/L							

##### LCS (B209125-BS1)

Prepared: 09/18/12 Analyzed: 09/20/12

Cadmium	0.0504	0.0001	mg/L	0.0500	101	85-115			
Copper	0.0549	0.0001	mg/L	0.0500	110	85-115			
Lead	0.0502	0.0005	mg/L	0.0500	100	85-115			
Manganese	0.0523	0.0005	mg/L	0.0500	105	85-115			
Zinc	0.0487	0.0010	mg/L	0.0500	97.4	75-125			

##### LCS Dup (B209125-BSD1)

Prepared: 09/18/12 Analyzed: 09/20/12

Cadmium	0.0501	0.0001	mg/L	0.0500	100	85-115	0.740	20
Copper	0.0525	0.0001	mg/L	0.0500	105	85-115	4.39	20
Lead	0.0506	0.0005	mg/L	0.0500	101	85-115	0.693	20
Manganese	0.0519	0.0005	mg/L	0.0500	104	85-115	0.624	20
Zinc	0.0509	0.0010	mg/L	0.0500	102	75-125	4.37	20

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Project: EC Durango Pilot  
Project Name / Number: [none]  
Project Manager: Mike Rigby

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### Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch B209172 - Dissolved/Potentially Dissolved Metals

##### Blank (B209172-BLK1)

Prepared: 09/24/12 Analyzed: 09/25/12

Cadmium	ND	0.0001	mg/L							
Copper	0.0010	0.0001	mg/L							B3
Lead	ND	0.0005	mg/L							
Manganese	ND	0.0005	mg/L							
Zinc	ND	0.0010	mg/L							

##### LCS (B209172-BS1)

Prepared: 09/24/12 Analyzed: 09/25/12

Cadmium	0.0474	0.0001	mg/L	0.0500		94.8	85-115			
Copper	0.0480	0.0001	mg/L	0.0500		96.0	85-115			
Lead	0.0467	0.0005	mg/L	0.0500		93.4	85-115			
Manganese	0.0493	0.0005	mg/L	0.0500		98.6	85-115			
Zinc	0.0493	0.0010	mg/L	0.0500		98.6	85-115			

##### LCS Dup (B209172-BSD1)

Prepared: 09/24/12 Analyzed: 09/25/12

Cadmium	0.0476	0.0001	mg/L	0.0500		95.1	85-115	0.389	20	
Copper	0.0484	0.0001	mg/L	0.0500		96.9	85-115	0.876	20	
Lead	0.0481	0.0005	mg/L	0.0500		96.2	85-115	2.87	20	
Manganese	0.0485	0.0005	mg/L	0.0500		97.1	85-115	1.53	20	
Zinc	0.0489	0.0010	mg/L	0.0500		97.8	85-115	0.827	20	

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Waste Water Management, Inc.  
2820 Dorr Ave, Ste 200  
Fairfax VA, 22031

Project: EC Durango Pilot  
Project Name / Number: [none]  
Project Manager: Mike Rigby

Reported:  
09/26/12 15:53

### Total Mercury by CVAA - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

#### Batch B209115 - EPA 245.1/7470

##### Blank (B209115-BLK1)

Prepared: 09/18/12 Analyzed: 09/19/12

Mercury ND 0.0002 mg/L

##### Blank (B209115-BLK2)

Prepared: 09/18/12 Analyzed: 09/19/12

Mercury ND 0.0002 mg/L

##### LCS (B209115-BS1)

Prepared: 09/18/12 Analyzed: 09/19/12

Mercury 0.0023 0.0002 mg/L 0.00200 115 85-115

##### LCS Dup (B209115-BSD1)

Prepared: 09/18/12 Analyzed: 09/19/12

Mercury 0.0022 0.0002 mg/L 0.00200 110 85-115 4.44 20

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Waste Water Management, Inc.  
2820 Dorr Ave, Ste 200  
Fairfax VA, 22031

Project: EC Durango Pilot  
Project Name / Number: [none]  
Project Manager: Mike Rigby

Reported:  
09/26/12 15:53

### Dissolved Mercury by CVAA - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

#### Batch B209114 - EPA 245.1/7470

##### Blank (B209114-BLK1)

Prepared: 09/18/12 Analyzed: 09/19/12

Mercury ND 0.0002 mg/L

##### LCS (B209114-BS1)

Prepared: 09/18/12 Analyzed: 09/19/12

Mercury 0.0023 0.0002 mg/L 0.00200 115 85-115

##### LCS Dup (B209114-BSD1)

Prepared: 09/18/12 Analyzed: 09/19/12

Mercury 0.0022 0.0002 mg/L 0.00200 110 85-115 4.04 20

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Waste Water Management, Inc.  
2820 Dorr Ave, Ste 200  
Fairfax VA, 22031

Project: EC Durango Pilot  
Project Name / Number: [none]  
Project Manager: Mike Rigby

Reported:  
09/26/12 15:53

### Notes and Definitions

B3	Target analyte detected in method blank. Reporting limit elevated to account for blank result.
B1	Target analyte detected in method blank at or above method reporting limit. Sample concentration found to be 10 times above the concentration found in the method blank or less than the reporting limit.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis *Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Client: WWR

Contact: Nick Testes

Address: 2820 North Ave #200

Fairfax, VA 22031

Phone Number: 7038410098

Email: nick.testes@warrick.com Project Name: ED Durango Pilot

NOTES:

1) Ensure proper container packaging.

2) Ship samples promptly following collection.

3) Designate Sample Reject Disposition.

PO#

CHAIN OF CUSTODY RECORD

Page \_\_\_\_ of \_\_\_\_

Table 1. - Matrix Type

1 = Surface Water, 2 = Ground Water  
3 = Soil/Sediment, 4 = Rinseate, 5 = Oil  
6 = Waste, 7 = Other (Specify) \_\_\_\_\_

FOR GAL USE ONLY

GAL JOB #

1009-049

Samplers Signature: \_\_\_\_\_

Analyses Required

(970) 247-4220 FAX (970) 247-4227

Lab Name: Green Analytical Laboratories  
Address: 75 Suttle Street, Durango, CO 81303

www.greenanalytical.com

Sample ID	Date	Time	Collected by: (Init.)	Matrix Type From Table 1	No. of Containers	Sample Filtered ? Y/N	Unpreserved (Ice Only)	Preservative(s)				Other (Specify)	Analyses Required	Comments		
								HNO3	HCL	H2SO4	NAOH					
1. ECD-10	9/8/12	11:00														
2. ECD-10	↓	↓														
3. ECD-10																
4.																
5. ECD-11	9/8/12	12:00														
6. ECD-11	↓	↓														
7. ECD-11																
8.																
9.																
10.																
Relinquished by:	Date: <u>9-10-12</u>		Time: <u>10:30</u>		Received by: <u>Michael Valentine</u>		Date: <u>9-10-12</u>		Time: <u>10:30</u>							
Relinquished by:	Date:		Time:		Received by:		Date:		Time:							

15.0°C  
#18 no ice,  
but cooled  
since sampling



## Project Information

### Waste Water Management, Inc.

2820 Dorr Ave, Ste 200

Fairfax, VA 22031

Laboratory PM: Debbie Zufelt

Phone:(703) 846-0098

9/10/2012

Fax:-

Project Name: EC Durango Pilot

Project Number: BLM

Client PM: Mike Rigby

Comments:

Invoice To: Waste Water Management, Inc.

Invoice Bid: BLM

Invoice Manager: Mike Rigby

#### Analysis

#### Comment

Lead Dissolved by ICPMS

Aluminum Total Recoverable by

Cadmium Dissolved by ICPMS

Cadmium Total Recoverable by I

Copper Dissolved by ICPMS

Copper Total Recoverable by ICF

Aluminum Dissolved by ICP

Iron Total Recoverable by ICP

Zinc Total Recoverable by ICPM

Lead Total Recoverable by ICPM

Manganese Dissolved by ICPMS

Manganese Total Recoverable by

Mercury Dissolved by CVAA

Mercury Total by CVAA

Zinc Dissolved by ICPMS

Iron Dissolved by ICP

Ca, Mg, K, Na, Fe Dissolved ICP  
+ Alk, Cl, ~~SO4~~ SO4